

ABSTRACT

A sulfate process for producing titania from a  
titaniferous material is disclosed. The process includes  
5 leaching the titaniferous material and producing a leach  
liquor, separating titanyl sulfate from leach liquor,  
hydrolysis of the extracted titanyl sulfate, and  
thereafter calcining the solid phase produced in the  
hydrolysis step. The process is characterised by  
10 controlling the hydrolysis step and forming a selected  
particle size distribution of hydrated titanium oxides  
from titanyl sulfate.